

**CERTIFIED MAIL (Return Receipt Requested)**

**STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION**

**BOW  
15383**

April 8, 2009

**ADDENDUM NO. 1**

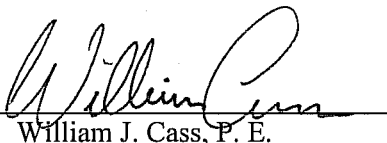
Bidders are advised to make the following revisions to the Plans and Proposal:

1. **Replace**, in the Proposal; the **Information Report** (Page 1 & 2) and the **Bid Schedule** (Pages 107 through 111) with attached pages 1A & 2A and attached pages 107A through 111A. This reflects the addition the following item:

**Item 678.201 – Impact Attenuator Foundation Pad      Unit**

2. **Replace**, in the Proposal, pages 99 and 100, the **Special Provision for Items 678.2 Impact Attenuator Device (Test Level 3) and Item 678.201 – Impact Attenuator Foundation Pad** with attached pages 99A and 100A.

**THE CONTRACTOR SHALL ACKNOWLEDGE THIS  
ADDENDUM ON THE BID ENVELOPE**

  
William J. Cass, P. E.

Director of Project Development

4-8-09  
Date

STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION

INFORMATION REPORT

PROJECT: BOW  
15383

COUNTY AND CODE: MERRIMACK 013

DATE BIDS OPEN: April 16, 2009

SCOPE OF WORK: GUARDRAIL REPLACEMENT

LOCATION: I-93, NORTH OF THE HOOKSETT  
TOLL PLAZA

COMPLETION DATE: October 16, 2009

PROPOSAL GUARANTEE: 50,000.00

FEDERAL PARTICIPATION: NONE

ESTIMATED QUANTITIES

TURNPIKE RENEWAL & REPLACEMENT (State FY)

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
202.701	REMOVAL OF GUARDRAIL	LF	11,000.
203.1	COMMON EXCAVATION	CY	810.
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	450.
403.6	PAVEMENT JOINT ADHESIVE	LF	21,800.
520.421	CONCRETE CLASS F, FLOWABLE FILL, EXCAVATABLE	CY	530.
604.4009	MODIFY EXISTING BARREL BLOCK CATCH BASIN	EA	40.
604.72	GRATES & FRAMES, TYPE B	EA	6.
604.75	GRATES & FRAMES, TYPE E	EA	74.
606.413	SINGLE SLOPE CONCRETE MEDIAN BARRIER, PRECAST	LF	11,000.
606.4179	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL (DEPARTMENT SUPPLIED)	LF	4,000.
606.9523	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE), TEST LEVEL 3	U	2.
615.03	TRAFFIC SIGN TYPE C (F)	SF	12.
618.61	UNIFORMED OFFICERS WITH VEHICLE		

AS SHOWN IN  
PROPOSAL

619.1	MAINTENANCE OF TRAFFIC	U	1.
619.27	TRAILER-MOUNTED SPEED		
	LIMIT SIGN	U	4.
619.623	TRAILER MOUNT ATTENUATOR		
	WITH ARROW BOARD		
	(SUPPLY TO DEPARTMENT)	U	1.
621.1	RETROREFLECTIVE MEDIAN		
	BARRIER DELINEATOR	EA	115.
628.2	SAWED BITUMINOUS PAVEMENT	LF	22,900.
631.024	MODULAR GLARE SCREEN	LF	2,000.
631.0249	MODULAR GLARE SCREEN		
	(SUPPLY TO DEPARTMENT)	LF	1,000.
670.104	TEMPORARY PORTABLE		
	LIGHTING	U	1.
678.2	IMPACT ATTENUATION DEVICE		
	(TEST LEVEL 3)	U	2.
678.201	IMPACT ATTENUATOR		
	FOUNDATION PAD	U	2.
692.	MOBILIZATION	U	1.
699.	MISCELLANEOUS TEMPORARY		
	EROSION AND SEDIMENT		AS SHOWN IN
	CONTROL		PROPOSAL
1008.11	ALTERATIONS AND ADDITIONS		
	AS NEEDED-		AS SHOWN IN
	UNANTICIPATED WORK		PROPOSAL
1010.15	FUEL ADJUSTMENT		
			AS SHOWN IN
			PROPOSAL

BID SCHEDULE. NOTE: THIS PROPOSAL SHALL BE PREPARED BY THE BIDDER, WITH THE UNIT PRICES SPECIFIED IN BOTH WORDS AND FIGURES, AND THE EXTENSIONS MADE BY THE BIDDER. FOR COMPLETE INFORMATION CONCERNING THESE ITEMS, SEE PLANS, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS ADOPTED IN 2006.

ITEM NOS.	APPROXIMATE QUANTITIES	ITEMS AND UNIT PRICES BID (F)-FINAL PAY QTY-SEE 109.11	UNIT PRICES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
202.701	11,000.	REMOVAL OF GUARDRAIL	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
	LF	AT _____	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
203.1	810.	COMMON EXCAVATION	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
	CY	AT _____	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
403.12	450.	HOT BITUMINOUS PAVEMENT, HAND METHOD	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
	TON	AT _____	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
403.6	21,800.	PAVEMENT JOINT ADHESIVE	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
	LF	AT _____	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
520.421	530.	CONCRETE CLASS F, FLOWABLE FILL, EXCAVATABLE	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
	CY	AT _____	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
604.4009	40.	MODIFY EXISTING BARREL BLOCK CATCH BASIN	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
	EA	AT _____	:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:
			:	:	:	:

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ITEM NOS.	APPROXIMATE QUANTITIES	ITEMS AND UNIT PRICES BID (F) - FINAL PAY QTY-SEE 109.11	UNIT PRICES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
604.72	6.	GRATES & FRAMES, TYPE B	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
	EA	_____ DOLLARS PER EA	:	:	:	:
			:	:	:	:
604.75	74.	GRATES & FRAMES, TYPE E	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
	EA	_____ DOLLARS PER EA	:	:	:	:
			:	:	:	:
606.413	11,000.	SINGLE SLOPE CONCRETE MEDIAN BARRIER, PRECAST	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
	LF	_____ DOLLARS PER LF	:	:	:	:
			:	:	:	:
606.4179	4,000.	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL (DEPARTMENT SUPPLIED)	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
	LF	_____ DOLLARS PER LF	:	:	:	:
			:	:	:	:
606.9523	2.	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE), TEST LEVEL 3	:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
	U	_____ DOLLARS PER U	:	:	:	:
			:	:	:	:
615.03	12.	TRAFFIC SIGN TYPE C (F)	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
	SF	_____ DOLLARS PER SF	:	:	:	:
			:	:	:	:

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ITEM NOS.	APPROXIMATE QUANTITIES	ITEMS AND UNIT PRICES BID (F) - FINAL PAY QTY-SEE 109.11	UNIT PRICES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
618.61		UNIFORMED OFFICERS WITH VEHICLE	:	:	:	:
			:	:	\$120,000	00
			:	:	:	:
619.1	1.	MAINTENANCE OF TRAFFIC	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
		_____ DOLLARS	:	:	:	:
	U	PER U	:	:	:	:
			:	:	:	:
619.27	4.	TRAILER-MOUNTED SPEED LIMIT SIGN	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
		_____ DOLLARS	:	:	:	:
	U	PER U	:	:	:	:
			:	:	:	:
619.623	1.	TRAILER MOUNT ATTENUATOR WITH ARROW BOARD (SUPPLY TO DEPARTMENT)	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
		_____ DOLLARS	:	:	:	:
	U	PER U	:	:	:	:
			:	:	:	:
621.1	115.	RETROREFLECTIVE MEDIAN BARRIER DELINEATOR	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
		_____ DOLLARS	:	:	:	:
	EA	PER EA	:	:	:	:
			:	:	:	:
628.2	22,900.	SAWED BITUMINOUS PAVEMENT	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
			:	:	:	:
		_____ DOLLARS	:	:	:	:
	LF	PER LF	:	:	:	:

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ITEM NOS.	APPROXIMATE QUANTITIES	ITEMS AND UNIT PRICES BID (F) -FINAL PAY QTY-SEE 109.11	UNIT PRICES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
631.024	2,000.     LF	MODULAR GLARE SCREEN	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
		_____ DOLLARS	:	:	:	:
		PER LF	:	:	:	:
631.0249	1,000.     LF	MODULAR GLARE SCREEN (SUPPLY TO DEPARTMENT)	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
		_____ DOLLARS	:	:	:	:
		PER LF	:	:	:	:
670.104	1.     U	TEMPORARY PORTABLE LIGHTING	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
		_____ DOLLARS	:	:	:	:
		PER U	:	:	:	:
678.2	2.     U	IMPACT ATTENUATION DEVICE (TEST LEVEL 3)	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
		_____ DOLLARS	:	:	:	:
		PER U	:	:	:	:
678.201	2.     U	IMPACT ATTENUATOR FOUNDATION PAD	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
		_____ DOLLARS	:	:	:	:
		PER U	:	:	:	:
692.	1.     U	MOBILIZATION	:	:	:	:
			:	:	:	:
			:	:	:	:
		AT _____	:	:	:	:
		_____ DOLLARS	:	:	:	:
		PER U	:	:	:	:

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ITEM NOS.	APPROXIMATE QUANTITIES	ITEMS AND UNIT PRICES BID (F)-FINAL PAY QTY-SEE 109.11	UNIT PRICES		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
699.		MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	:	:	\$10,000	:00
1008.11		ALTERATIONS AND ADDITIONS AS NEEDED- UNANTICIPATED WORK	:	:	\$20,000	:00
1010.15		FUEL ADJUSTMENT	:	:	\$20,000	:00

GRAND TOTAL \$ \_\_\_\_\_

\* NOTE: GRAND TOTAL SHOULD ALSO  
BE ENTERED ON PROPOSAL COVER

**Sample Proposal**  
**NOT FOR BIDDING PURPOSES**

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**BOW**  
**15383**

April 8, 2009

## **SPECIAL PROVISION**

### **SECTION 678 -- IMPACT ATTENUATORS**

#### **Item 678.2 - Impact Attenuation Device (Test Level 3)**

##### **Item 678.201 – Impact Attenuator Foundation Pad**

#### **Description**

**1.1** This work consists of installing an impact attenuator device, including the construction of a foundation pad for the device and furnishing the Department with reset parts.

#### **Materials**

**2.1** The impact attenuation device shall be a Smart Cushion SCI-100GM as manufactured by SCI Products Incorporated; 635 Lucknow Road; Harrisburg, Pennsylvania 17110-1635. The reset parts kit shall be product #9488.

**2.1.1** The Contractor shall provide a delineator panel in the dimensions recommended by the manufacturer. The retroreflective sheeting shall be in accordance with 606.3.3.

**2.2** Foundation material(s) shall conform to manufacture's specifications for the type of unit installed.

#### **Construction Requirements**

**3.1** The Contractor shall submit technical data including the overall length, width, the number of bays or modules, connection details, the point at which redirection is provided, where length of need is established on the device and the test level tested to in writing to the Engineer prior to installing the attenuator.

**3.2** All work relating to the placement of the components of the impact attenuation device including transition sections shall be as shown on the manufacturer's details and shall be approved by the Engineer. Installation shall be in accordance with the manufacturer's recommendations.

**3.2.1** The impact attenuation device shall be located on a concrete foundation pad as recommended by the manufacturer.

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**3.2.2** The Contractor shall provide a positive connection between the end of concrete barrier or guardrail and the impact attenuation device as recommended by the manufacturer.

**3.3** Any device or device components damaged during installation shall be replaced with new parts from the manufacturer.

**3.3.1** The Contractor shall provide a reset parts kit for Test Level 3 to the Engineer.

### **Method of Measurement**

**4.1** Impact attenuation device will be measured by the unit. No separate measurement will be made for any materials necessary for proper installation recommended by the manufacturer, delineation, materials to connect the impact attenuation device to the concrete barrier guardrail, or reset parts kit.

**4.2** The impact attenuator foundation pad will be measured by the unit. The unit price shall include excavation and the materials required per manufacturer's recommendations for the device installed.

### **Basis of Payment**

**5.1** Impact attenuation device will be paid for at the contract unit price per unit complete in place in accordance with 109.11.

**5.1.1** All excavation necessary and any materials necessary to connect the impact attenuation device to guardrail or concrete barrier, delineation, and reset parts kit will be subsidiary.

**5.1.2** Any device or device components damaged by the Contractor's negligence shall be replaced at no cost to the Department.

**5.2** Impact attenuator foundation pad will be paid for at the contract unit price per unit complete in place in accordance with 109.11.

Pay item and unit:

678.2	Impact Attenuation Device (Test Level 3)	Unit
678.201	Impact Attenuator Foundation Pad	Unit

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